AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A three dimensional CAD model of a composite part to include a plurality of plies including a tool side ply and a subsequent ply and to be formed on a tool having a shape, the model comprising:

a first CAD native geometric shape representative of the shape of the tool; ~~and~~

a second CAD native geometric shape representative of the tool side ply[[.]]; and

wherein the second CAD native geometric shape further comprising a first trimmed CAD native geometric shape being a trim of the first CAD native geometric shape.

2. (cancelled)

3. (currently amended) The model of claim 2, further comprising a property associated with the first trimmed CAD native geometric shape.

4. (currently amended) The model of claim 3, the property being representative of ~~the~~ a material to be selected for the tool side ply.

5. (currently amended) The model of claim 3, the property being representative of ~~the~~ an orientation to be selected for the tool side ply.

6. (currently amended) The model of claim 2, the first trimmed CAD native geometric shape further comprising a surface.

7. (currently amended) The model of claim 2, the first trimmed CAD native geometric shape further comprising a sheet solid.

8. (currently amended) The model of claim 2, further comprising a second trimmed CAD native geometric shape representative of the subsequent ply.

9. (currently amended) The model of claim 8, further comprising a stacking order defined by a name of a collector for the first trimmed CAD native geometric shape and a name of a collector for the second trimmed CAD native geometric shape.

10. (currently amended) The model of claim 8, further comprising an offset by which the second trimmed CAD native geometric shape is offset from the first trimmed CAD native geometric shape.

11. (original) The model of claim 10, further comprising a stacking order defined by the offset.

12. (currently amended) The model of claim 1, further comprising ~~the~~ a second trimmed CAD native geometric shape draped on the first trimmed CAD native geometric shape.

13. (currently amended) A method of three dimensional CAD modeling of a composite part to include a plurality of plies including a tool side ply and a subsequent ply, and to be formed on a tool, the method comprising:

representing ~~the~~ a shape of the tool with a first CAD native geometric shape;

representing the tool side ply with a second CAD native geometric shape; ~~and~~

locating the tool side ply adjacent the first CAD native geometric shape[[.]]; and

wherein the representing the tool side ply further comprises trimming the first CAD native geometric shape whereby the second CAD native geometric shape is created.

14. (currently amended) The method of claim 13, further comprising associating a property with the second CAD native geometric shape.

15. (original) The method of claim 14, further comprising representing a material to be selected for the tool side ply with the property.

16. (original) The method of claim 14, further comprising representing an orientation to be selected for the tool side ply with the property.

17. (currently amended) The method of claim 14, further comprising:

representing the subsequent ply with a third CAD native geometric shape; and

offsetting the third CAD native geometric shape from the first CAD native geometric shape by a distance.

18. (currently amended) The method of claim 17, further comprising draping the third CAD native geometric shape on the second CAD native geometric shape.

19. (cancelled)

20. (currently amended) The method of claim 13 wherein the second CAD native geometric shape is a surface.

21. (currently amended) The method of claim 13 wherein the second CAD native geometric shape is a sheet solid.

22. (currently amended) The method of claim 13, further comprising representing the subsequent ply with a third CAD native geometric shape and locating the third CAD native geometric shape adjacent the second CAD native geometric shape.

23. (currently amended) The method of claim 22, further comprising defining a stacking order with a name of a collector for the second CAD native geometric shape and a name of a collector for the third CAD native geometric shape.

24. (currently amended) A method of developing a composite part to include a ply, the method comprising:

accessing a file including a three dimensional CAD model of the composite part, the model including a first CAD native geometric shape representative of the ply; and

viewing the model with a low-end viewer.

25. (currently amended) The method of claim 24, the developing of the composite part being selected from at least one of ~~the~~ a group consisting of designing, manufacturing, testing, operating, and maintaining the composite part.

26. (currently amended) A method of developing a composite part to include a plurality of plies including a ply, the method comprising:

creating a file including a three dimensional CAD model of the composite part, the model including a first CAD native geometric shape representative of the ply; and

allowing viewing of the model with a low-end viewer.

27. (currently amended) The method of claim 26, the developing of the composite part being selected from at least one of ~~the~~ a group consisting of designing, manufacturing, testing, operating, and maintaining the composite part.